BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0183 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAM	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
2008	8BYTH08.1	P13	8.1	LPG	Otto	HDO	2TWC, SFI, 2HO2S	N/A			
l	'ENGINE'S IDLE NS CONTROL N/A			ADDI	TIONAL IDLE EM	ISSIONS CO	NTROL ⁵				
ENGINE (Entering Models? Codes (rated power, in np)										
8.1		GM 8.1L / 1 (332)									
CNG/LN L/M/H H ECS=en up catalyst; TBI=throttle super charg control mod ESS=en (per 13 CCF	IG=compressed/liqu IDD=light/medium/he nission control syste DPF=diesel particu body fuel injection; er; CAC=charge air ule: EM=engine mo gine shutdown syste R 1956.8(a)(6)(D); E	efied nature avy heavy heavy heavy heavy heavy m; TWC/Clate filter; SFI/MFI=; cooler; Edification; em (per 13 ixempt=ex	rai gas; LPG=liquefi r-duty diesel; UB=ur DC=lhree-way/oxidizi PTOX=periodic trap sequential/multi port GR / EGR-C=exhaus 2 (prefix)=parallel; CCR 1956.8(a)(6)(A tempted per 13 CCR	ed petroleum gas; E85=85% ethic ban bus; HDO=heavy duty Otto; ing catalyst; NAC=NOx adsorptio oxidizer; HO2s/O25=heated/oxy fuel injection; DGI=direct gasolin st gas recirculation / cooled EGR; (2) (suffix)=in series; V1); 300=30 oftr NOx (net 13 C	anol fuel; MF=multi on catalyst; SCR-U rgen sensor; HAFS e injection; GCARI PAIR/AIR=pulsed CR 1956.8(a)(6)(C)	fuel a.k.a. BF= / SCR-N=setec /AFS=heated/a 3=gaseous cart /secondary air i ; APS =interna	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; tive catalytic reduction – urea / – armonia; \u00ed tir-fuel-ratio sensor (a.k.a., universal or linear ouretor; IDVDDI=indirect/direct diesel injection njection; SPL=smoke puff limiter; ECM/PCN of combustion auxiliary power system; ALT=a (e.g., Otto engines and vehicles);	WU (prefix) =warm- oxygen sensor); n: TC/SC=turbo/ I=engine/powertrain			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in

NMHC		NOx		NMHC+NOx		со		PM		нсно	
FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO		EURO
0.14	*	*	*	*	•	14.4	•		+		EURO
*	*	0.32	*	0.47	*	*	*	*	*	V.U I	-
0.13	*	0.27	*		*	41	*	0.001	*	0.004	
,			*		*		*	0.001	<u> </u>	0.001	<u></u>
	61P 0.14	0.14 * *	FTP EURO FTP 0.14 * * 0.32	FTP EURO FTP EURO 0.14 * * * * * 0.32 *	FTP EURO FTP EURO FTP 0.14 * * * * * * 0.32 * 0.47	FTP EURO FTP EURO FTP EURO 0.14 * * * * * * * 0.32 * 0.47 *	FTP EURO FTP EURO FTP EURO FTP 0.14 * * * * * 14.4 * * 0.32 * 0.47 * *	FTP EURO FTP EURO FTP EURO 0.14 * * * * 14.4 * * * 0.32 * 0.47 * * * 0.13 * 0.27 * 0.40 * 4.4 *	FTP EURO FTP EURO FTP EURO FTP 0.14	FTP EURO FTP EURO FTP EURO FTP EURO FTP EURO 0.14 * * * * * * * * * * * * * * * * * * *	FTP EURO FTP EURO FTP EURO FTP EURO FTP EURO FTP 0.14 * * * * * * * * * * * * * * * * * * *

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of April 2008

Annette Hebert, Chief

Mobile Source Operations Division